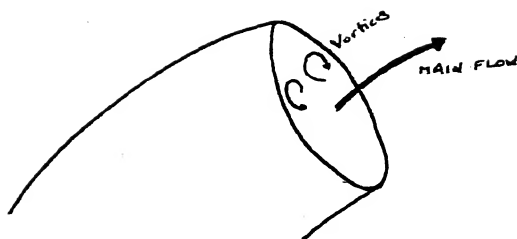


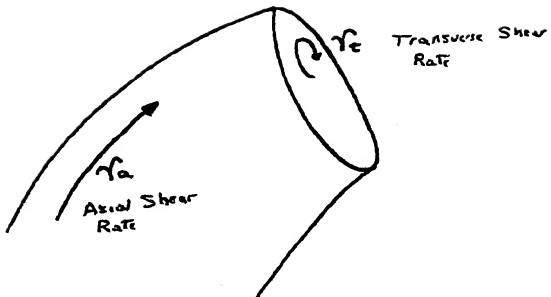
Fig. 1



Prior Art

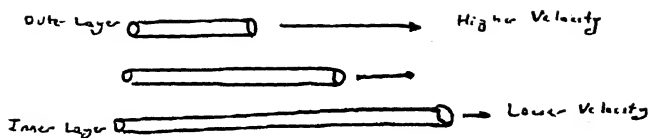
09807592-052304

Fig. 2



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Fig. 3



09807592-052304

Fig. 4

Plot Capacity vs N

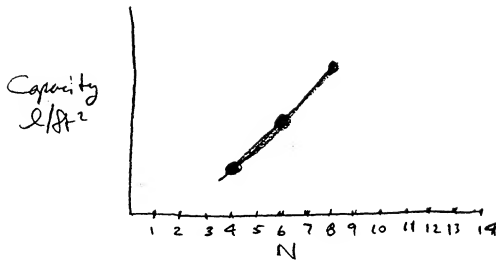
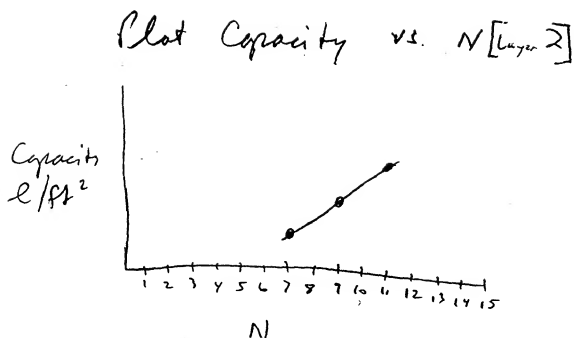


Fig. 5



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Fig. 6

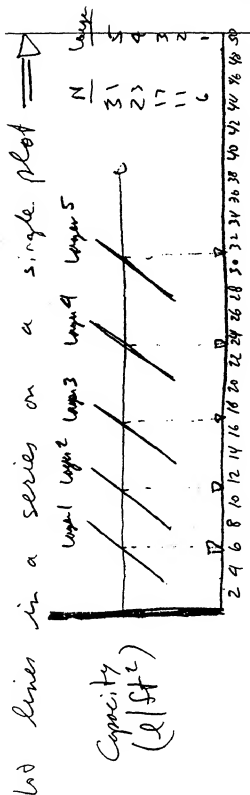
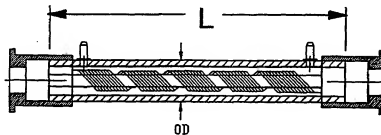
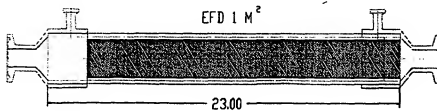
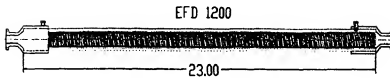
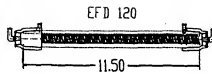


Fig. 7



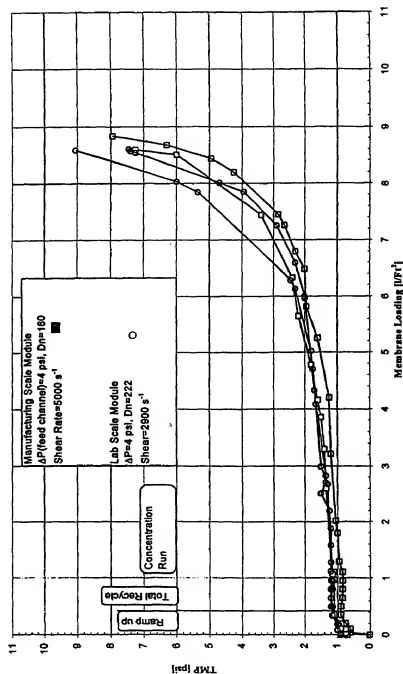
Type	Area	# of fiber layers	Shell Length "L" (in.)	Shell O.D. (in.)	# of Fibers/ Device	Fiber Length (in.)	Equiv. Dean # (@ 2psi)
Lab Scale	120 sq.cm	1	11.5	.75	4	38	203
Pilot Scale	1200 sq.cm	3	23	1.1	40	35	210
Process Scale	1 sq.m.	11	23	2.4	300	37	110
	2 sq.m.	16	23	2.9	590	37	104

*assumes fiber 1.3mm ID x 2mm OD

Fig. 8

EXPERIMENTS DEMONSTRATING SCALING BETWEEN LABORATORY AND MANUFACTURING SCALE MODULES

Scale Up Experiments-Constant Flux Experiment using 0.1 μm Fiber, 130 cm^2 and 5 ft^2 EFD at ΔP (feed channel) 4 psi and Flux 20 l/mh using Synthetic Solution (2% BSA, 0.2% RNA and 0.5% Dextran in 0.1M Sodium Acetate Buffer of pH:5)



FO2250-26570860

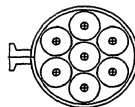
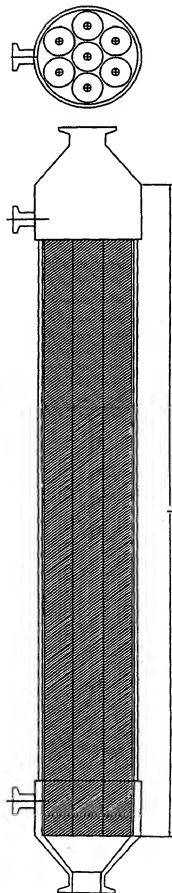
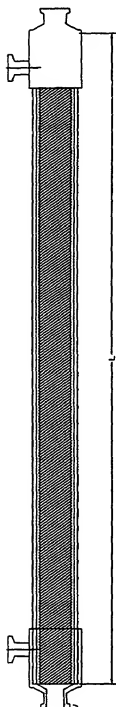
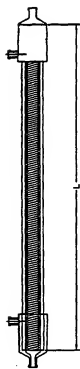
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EFD MODULE DESIGNS

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PCT/US99/30141

SECTION VIEWS



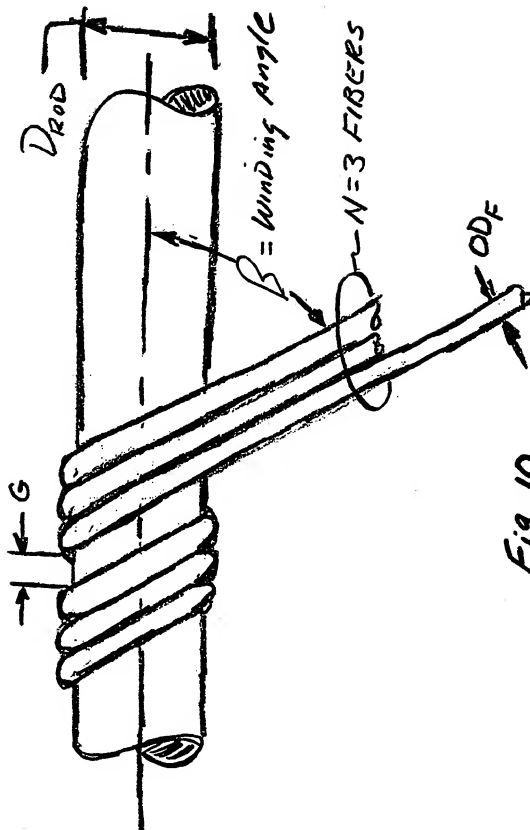
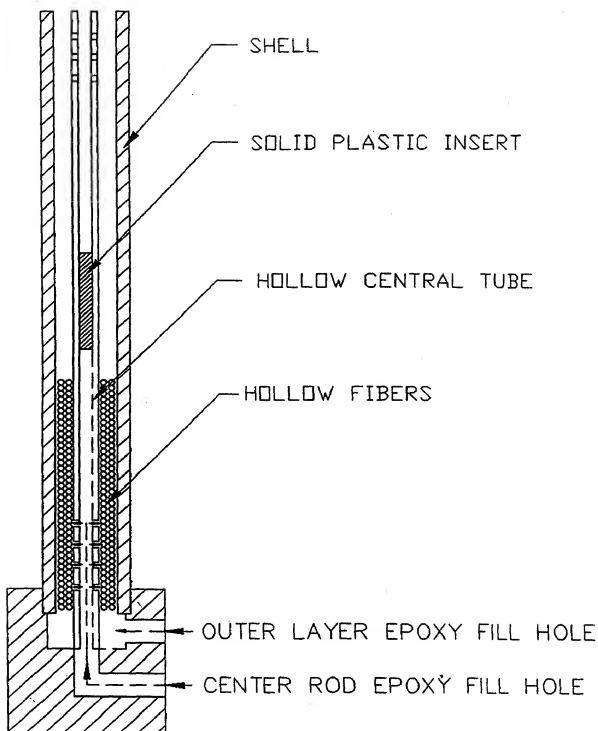


Fig. 10

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FOI 2002-0224060